

SECRET

(a) at least one amino acid residue of said parent α -amylase has been deleted;

(b) at least one amino acid residue of said parent α -amylase has been replaced amino acid residue; and/or

(c) at least one amino acid residue has been inserted relative to said parent

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M10, M105, M2
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,V; M208L; M2

6. A variant according to claim 3, wherein a said methionine residue has been replaced by threonine.
7. A variant according to claim 1, wherein at least one amino acid which is, or which is equivalent to, F180, R181, G182, T183, G184 or K185 of the amino acid sequence shown in SEQ ID No. 1 has been deleted.
8. A variant according to claim 7, wherein the deleted amino acids are, or are equivalent to, any two of said amino acid residues.
9. A variant according to claim 8, wherein the deletions are, or are equivalent to, R181* + G182*; or T183* + G184*.
10. A variant according to claim 1, comprising an amino acid substitution which is, or which is equivalent to, one of the following substitutions in the amino acid sequence shown in SEQ ID No. 1: K269R; P260E; R124P; M105F,I,L,V; M208F,W,Y; L217I; V206I,L,F.
11. A variant according to claim 1, comprising an amino acid substitution which is, or which is equivalent to, one of the following substitutions in the amino acid sequence shown in SEQ ID No. 1: Y243F; K108R; K179R; K239R; K242R; K269R; D163N; D188N; D192N; D199N; D205N; D207N; D209N; E190Q; E194Q; N106D.
12. A DNA construct comprising a DNA sequence encoding an α -amylase variant according to claim 1.
13. A recombinant expression vector which carries a DNA construct according to claim 12.
14. A cell which is transformed with a DNA construct according to claim 12.
15. A cell according to claim 14, which is a microorganism.
16. A cell according to claim 15, which is a bacterium or a fungus.

17. A cell according to claim 16, which is a gram positive bacterium such as *Bacillus subtilis*, *Bacillus licheniformis*, *Bacillus lentus*, *Bacillus brevis*, *Bacillus stearothermophilus*, *Bacillus alkalophilus*, *Bacillus amyloliquefaciens*, *Bacillus coagulans*, *Bacillus circulans*, *Bacillus lautus*, *Bacillus thuringiensis* or *Streptomyces lividans* or *Streptomyces murinus*, or a gram negative bacterium such as *E. coli*.
18. A method of producing an α -amylase variant, comprising culturing a cell according to claim 14 under conditions conducive to the production of the α -amylase variant, and recovering the α -amylase variant from the culture.
19. Use of an α -amylase variant according to claim 1 for washing and/or dishwashing.
20. A detergent additive comprising an α -amylase variant according to claim 1, optionally in the form of a non-dusting granulate, stabilized liquid or protected enzyme.
21. A detergent additive according to claim 20, comprising 0.02-200 mg of enzyme protein per gram of the additive.
22. A detergent additive according to claim 20, which additionally comprises another enzyme such as a protease, a lipase, a peroxidase, another amylolytic enzyme and/or a cellulase.
23. A detergent composition comprising an α -amylase variant according to claim 1 and a surfactant.
24. A detergent composition according to claim 23, which additionally comprises another enzyme such as a protease, a lipase, a peroxidase, another amylolytic enzyme and/or a cellulase.
25. A manual or automatic dishwashing detergent composition comprising an α -amylase variant according to claim 1 and a surfactant.
26. A dishwashing detergent composition according to claim 25, which additionally comprises another enzyme such as a protease, a lipase, a peroxidase, another amylolytic enzyme and/or a cellulase.

27. A manual or automatic laundry washing composition comprising an α -amylase variant according to claim 1 and a surfactant.

28. A laundry washing composition according to claim 27, which additionally comprises another enzyme such as a protease, a lipase, a peroxidase, an amylolytic enzyme and/or a cellulase.

29. Use of an α -amylase variant according to claim 1 for textile desizing.

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